



## Switch-disconnector, DC current, 20A, 2 strings M12

Part no. **SOL20/2MV**  
 Catalog No. **120919**  
 Eaton Catalog No. **SOL20-2MV**

### Delivery program

Product range			Switchgear for photovoltaic systems
Subrange			DC switch-disconnectors
Rated operational voltage	$U_e$	V	1000
Degree of Protection			IP65
Protection class			2
Number of conductors			2 pole
<b>Inputs</b>			
Inputs number of strings			2
Inputs connection type			Screw connector M12
<b>Outputs</b>			
Outputs number of strings			1
Outputs connection type			Threaded connection M16
Max. rated operational current	$I_e$	A	20
Design			Enclosed

### Technical data

Rated operational current $I_e$ at DC-21A	$I_e$	A	20
Number of poles			2 pole
Rated operational voltage	$U_e$	V	1000
Isolating characteristics			yes
Standards			IEC/EN 60947-3 TÜV-certified
Lifespan, mechanical	Operations		100000
Electrical		Operation	100000
Max. operating frequency		Ops/h	120
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			-25 - +60
Mounting position			As required
Degree of Protection			IP65

### Dimensions

Width		mm	100
Height		mm	215
Depth		mm	130
Weight		kg	0.42
Locking facility			in OFF-Position: yes
Rated short-time withstand current ( $t=1s$ )	$I_{cw}$	kA	0.24
up to 440 V 50/60 Hz	$I_{cm}$	kA	0.32
Internal resistance		mΩ	8

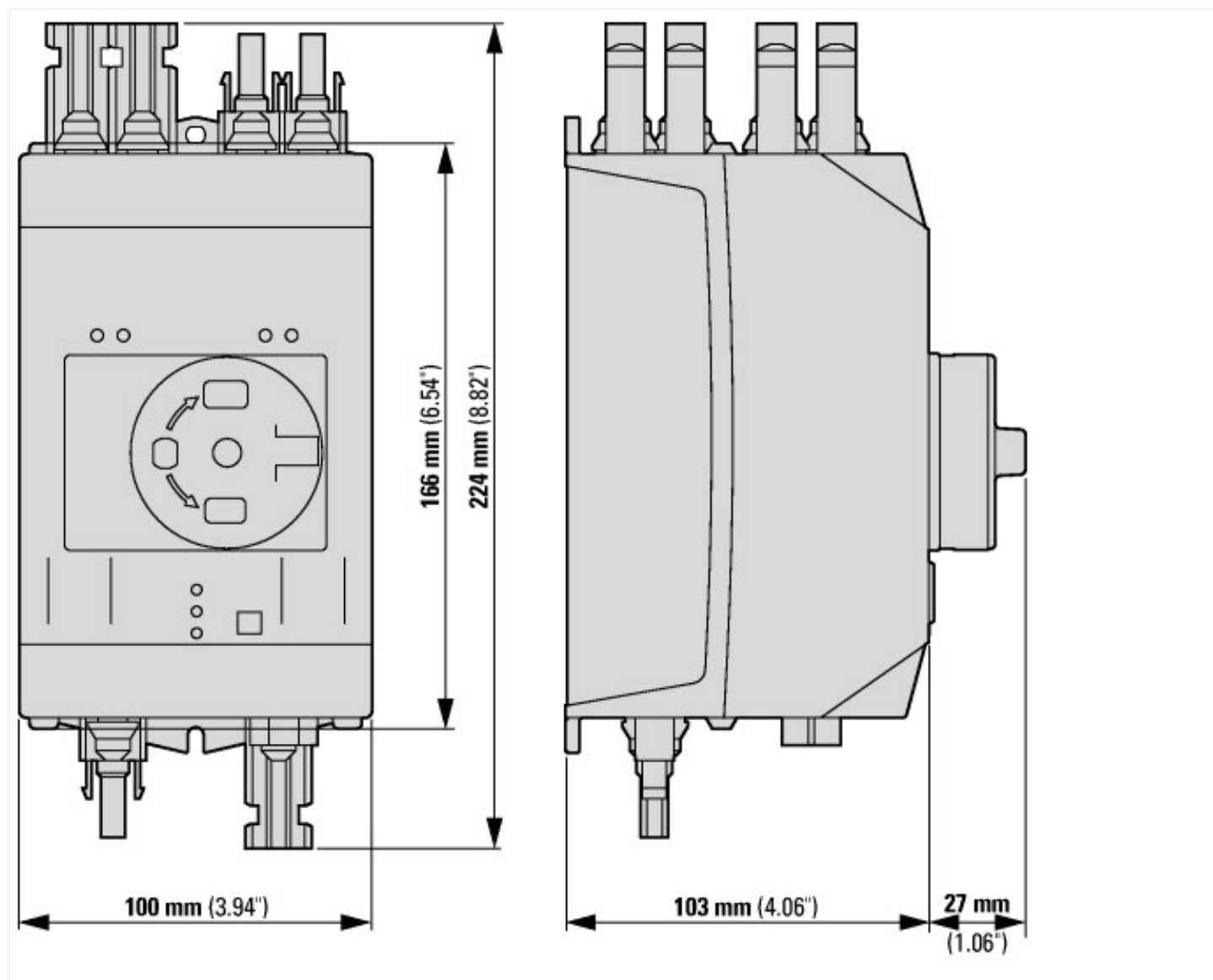
### Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

### Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss8.1-27-37-14-03 [AKF060010])			
Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Max. rated operation voltage Ue AC		V	0
Rated operating voltage		V	1000 - 1000
Rated permanent current Iu		A	20
Rated permanent current at AC-21, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current Icw		kA	0.24
Rated operation power at AC-23, 400 V		kW	0
Switching power at 400 V		kW	20
Conditioned rated short-circuit current Iq		kA	0
Number of poles			2
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			Yes
Device construction			Complete device in housing
Suitable for ground mounting			Yes
Suitable for front mounting 4-hole			No
Suitable for front mounting center			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Toggle
Interlockable			No
Type of electrical connection of main circuit			-
Degree of protection (IP), front side			IP65

## Dimensions



## Additional product information (links)

### IL008036ZU DC Disconnect, enclosed

IL008036ZU DC Disconnect, enclosed	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008036ZU2016_03.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008036ZU2016_03.pdf</a>
Motor starters and "Special Purpose Ratings" for the North American market	<a href="http://www.moeller.net/binary/ver_techpapers/ver953en.pdf">http://www.moeller.net/binary/ver_techpapers/ver953en.pdf</a>
Busbar Component Adapters for modern Industrial control panels	<a href="http://www.moeller.net/binary/ver_techpapers/ver960en.pdf">http://www.moeller.net/binary/ver_techpapers/ver960en.pdf</a>